

## **IN THE CLAIMS**

This listing of claims will replace all prior versions, and listing, of claims in the application:

### **Listing of Claims:**

1. (Currently Amended): A method for producing a silica aerogel, which comprises combustion of rice husk until the white ash is obtained, dissolving rice husk ash in aqueous sodium hydroxide, heating and stirring the resultant gel mixture to produce a sodium silicate solution, adding concentrated sulphuric acid to the resulting water glass solution to convert the sodium silicate to silica and produce a silica hydrogel, aging the hydrogel to allow the gel structure to develop, displacing the water by subjecting the hydrogel to with a C<sub>1</sub> to C<sub>4</sub> alcohol vapor through a repetitive cycle of condensation and evaporation, to produce an alcogel, and subjecting the alcogel, to super critical drying with additional alcohol to form an aerogel.
2. (Original): The method according to Claim 1 wherein the rice husk is combusted at a temperature in the range of 600°C to 700°C with excess air until the white ash is obtained.
3. (Previously Presented): The method according to Claim 1, wherein the rice husk ash contains 92 – 97% of amorphous silica and trace amount of cations.
4. (Original): The method according to Claim 3, wherein trace amount of cations present in rice husk silica are K<sup>+</sup>, Ca<sup>2+</sup>, Mg<sup>2+</sup>, Al<sup>3+</sup>, Fe<sup>3+</sup>.

5. (Previously Presented): The method according to Claim 1, wherein the purity of silica of above 98% can be achieved by washing the rice husk in 1M sulphuric acid solution, followed by air drying prior to combustion.
6. (Original): The method according to Claim 1, wherein the amounts of rice husk ash and sodium hydroxide are such as to give a ratio of  $\text{Na}_2\text{O}:\text{SiO}_2$  of between 1:3 and 1:4.
7. (Original): The method according to Claim 1, wherein the ratio of  $\text{Na}_2\text{O}:\text{SiO}_2$  is about 1:3.33.
8. (Previously Presented): The method according to Claim 1, wherein the sodium silicate solution contains from 8 to 10% by weight of  $\text{SiO}_2$ .
9. (Original): The method according to Claim 8, wherein the sodium silicate solution contains 9% by weight of  $\text{SiO}_2$ .
10. (Previously Presented): The method according to Claim 1, wherein the hydrogel is aged for a period of up to 5 days.
11. (Previously Presented): The method according to Claim 1, wherein the  $\text{C}_1$  to  $\text{C}_4$  alcohol is methanol or ethanol.

12. (Previously Presented): The method according to Claim 1, wherein hydrophilic aerogels are converted to hydrophobic aerogels by alkylation.

13. (Previously Presented): Silica aerogels produced by a process according to claim 1.